

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

the Application of

Yoshihito WATANABE et al.

Application No.: 10/790,060

Filed: March 2, 2004

Docket No.: 118150

For:

METAL COMPLEX-PROTEIN COMPOSITE AND HYDROGENATION CATALYST

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 冈 This Information Disclosure Statement is being filed (a) within three months of 1. the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- \boxtimes 2. Relevance of non-English language reference No. 1 is discussed in the present specification.
- 冈 An English-language translation of non-English language reference No. 1 is attached hereto.

Respectfully submitted,

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Date: May 11, 2004

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DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461 MAY 1 7 200A CO.

Sheet 1 of 1

Form PTO-1449 (REV. 8-83)	-	US Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DO 118150	ATTY DOCKET NO. APPLICATION NO. 10/790,060			O.	
INFOR	MATIC	ON DISCLOSURE STATEMENT						
(Use several sheets if necessary)				APPLICANTS Yoshihito WATANABE et al.				
			1	FILING DATE March 2, 2004				
		U.S. P	ATENT DOCU	MENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	
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		FOREIGI	N PATENT DO	CUMENTS	-		SUB	
		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	CLASS	
				Title, Date, Pertinent Pages, etc.)				
	1	M. Ohashi et al. "ABSTRACTS OF SYMPOSIUM ON BIOFUNCTIONAL CHEMISTRY," Chiba University, September						
		20-21, 2001. (w/ translation)						
	2	J. M. Brown et al. "THE MECHANISM OF ASYMMETRIC HOMOGENEOUS HYDROGENATION. SOLVENT						
		COMPLEXES AND DIHYDRIDES FROM RHODIUM DIPHOSPHINE PRECURSORS," Journal of Organometallic						
		Chemistry, Vol. 216, 1981, pp. 263-276.						
	3	T. Matsui et al. "FORMATION AND CATALYTIC ROLES OF COMPOUND I IN THE HYDROGEN PEROXIDE-						
		DEPENDENT OXIDATIONS BY HIS64 MYOGLOBIN MUTANTS," J. Am. Chem. Soc., Vol. 121, 1999, pp. 9952-						
		9957.						
	4	F. Ascoli et al. "PREPARATION AND PROPERTIES OF APOHEMOGLOBIN AND RECONSTITUTED HEMOGLOBINS," Methods in Enzymology, Vol. 76, 1981, pp. 72-87.						
	5 R. Baughn et al. "CONVERSION OF A PROTEIN TO A HOMOGENEOUS ASYMMETRIC HYDRO							
		CATALYST BY SITE-SPECIFIC MO	DIFICATION WITH A DIPHOSPHINERHODIUM(I) MOIETY," Journal of the					
		American Chemical Society, 100:1, January 4, 1978, pp. 306-307.						
	6	J. Collot et al. "ARTIFICIAL METALLOENZYMES FOR ENANTIOSELECTIVE CATALYSIS BASED ON BIOTIN-						
		AVIDIN," J. Am. Chem. Soc., Vol. 125, 2003, pp. 9030-9031.						
EXAMINER	l	DATE CONSIDERED						
Examiner: I	nitial if	f citation considered, whether or not cit	ation is in cor	nformance with M.P.E.P. 609; dra	w line th	rough cita	tion if not in	

Date: May 11, 2004